



## Comparison of Impacts for Alternative A and Alternative H

Impact Topic	Alternative A	Alternative H	Change from Current
<b>Natural Resources</b>			
Soils	Adverse, minor to major effects	Adverse, moderate effects	Beneficial, minor change
Water Quality	Adverse, minor to moderate effects	Adverse, minor to moderate effects	Negligible change
Air Quality	Adverse, negligible, effects on human health	Adverse, negligible effects on human health	Negligible change
Natural Soundscape	Adverse, minor to moderate effects, with major adverse impacts at Whitmore	Adverse, minor to moderate effects, with adverse moderate to major impacts at Whitmore	Negligible change
Cave and Paleontological Resources	Adverse, minor to major effects	Adverse, minor to moderate effects	Beneficial, minor change
Vegetation	Adverse, minor to major effects.	Adverse, moderate effects	Beneficial, minor change
Terrestrial Wildlife	Adverse, negligible to moderate effects	Adverse, negligible to moderate effects	Negligible change
Aquatic Resources	Adverse, negligible to major effects.	Adverse, negligible to moderate effects	Beneficial, minor change
Threatened, Endangered, or Sensitive Species	Adverse, minor to moderate effects	Adverse, minor to major effects	Adverse, minor change
<b>Cultural Resources</b>	Adverse, minor to major effects	Adverse, minor to moderate effects	Beneficial, minor change
<b>Visitor Experience</b>	Adverse, negligible to major effects for some users, with beneficial, minor to moderate effects for others	Adverse, negligible to moderate impacts for some users, with beneficial, minor to moderate impacts for others	Beneficial, negligible to minor change
<b>Socioeconomic Resources</b>	Direct and indirect effects: negligible	Beneficial, minor for commercial river runners; beneficial, major for Bar 10; negligible for Hualapai tribe	Beneficial, negligible to major change
<b>Park Management and Operations</b>	Adverse, short-term, negligible to long-term moderate effects	Adverse, short and long-term, moderate effects	Adverse, short-term, moderate change
<b>Adjacent Lands</b>	Adverse, moderate effects.	Adverse, minor to moderate effects.	Beneficial, negligible to minor change

## Comparison of Impacts for Alternative 1 and Alternative 4

Impact Topic	Alternative 1	Alternative 4	Change from Current
<b>Natural Resources</b>			
Soils	Adverse, moderate to major effects	Adverse, minor to moderate effects	Beneficial, minor change
Water Quality	Adverse, minor to major effects	Adverse, minor to major effects	Negligible change
Air Quality	Adverse, negligible to moderate effects on human health	Minor beneficial effects on human health	Beneficial, moderate change
Natural Soundscape	In zone 3 adverse, major and in zone 2 adverse, moderate to major effects	In zone 3 adverse, major and in zone 2 adverse, moderate to major effects	Negligible change
Caves and Paleontological Resources	Adverse, minor to major effects	Adverse, negligible to moderate effects	Beneficial, minor change
Vegetation	Adverse, moderate to major effects	Adverse, moderate effects	Beneficial, minor change
Terrestrial Wildlife	Adverse, major effects	Adverse, moderate to major effects	Beneficial, negligible to minor change
Aquatic Resources	Adverse, minor to major effects	Adverse, negligible to moderate effects	Beneficial, minor change
Threatened, Endangered, and Sensitive Species	Adverse, negligible to major effects	Adverse, negligible to major effects	Negligible change
<b>Cultural Resources</b>	Adverse, minor to major effects	Adverse, negligible to moderate effects	Beneficial, minor change
<b>Visitor Experience</b>	Adverse, negligible to major effects for some users, with beneficial, negligible to moderate effects for others	Adverse, minor to major effects for some users, with beneficial, minor to major effects for others	Adverse, minor to beneficial, minor change depending upon the user
<b>Socioeconomic Resources</b>	Negligible effect	Beneficial, major effect on Hualapai tribal revenues	Beneficial, major change
<b>Park Management and Operations</b>	Adverse, short-term, negligible to long-term, major effects	Adverse, short-term, major to long-term, moderate effects	Adverse, short-term, major change to long-term beneficial, minor change
<b>Adjacent Lands</b>	Negligible effect	Negligible effect	Negligible change